

CLAIM(S)

1. A diversity antenna system, comprising:
  - a near omni-directional antenna;
  - an internal patch antenna; and,
  - configuration means for selecting antenna type, the antenna type being one of the group consisting of the near omni-directional antenna and the internal patch antenna..
2. The diversity antenna system of claim 1, wherein the configurable antenna system is rotatably mounted.
3. The diversity antenna system of claim 1, the internal patch antenna comprising a TM10 mode patch antenna.
4. The diversity antenna system of claim 1 wherein the configuration means is one of the group consisting of:
  - a mechanical detect switch operable to determine the antenna type to be deployed, and
  - a microprocessor having computer readable instructions stored on a computer readable medium, the computer readable instructions comprising,
    - computer readable instructions for receiving input from a user;
    - computer readable instructions responsive to said input for selecting the type of antenna based on said input.
5. The diversity antenna system of claim 1, the configuration means comprising a mechanical detect switch, said detect switch sensing the orientation of the diversity antenna and selecting the antenna type based on said orientation.
6. A diversity antenna system for a UNII access point, comprising:
  - an internal, captured, rotatably mounted near omni-directional antenna;

a circuit board mounted inside the access point, the circuit board comprising:  
a near omni-directional antenna,  
a TM10 mode patch antenna; and  
a configuration means for selecting the antenna type, the antenna type being one of the group of internal, captured, rotatably mounted near omni-directional antenna, the near omni-directional antenna and the TM10 patch mode antenna.

7. The diversity antenna system of claim 6 wherein the configuration means comprises a mechanical detect switch.

8. The diversity antenna system of claim 6, wherein the configuration means comprises:

a semiconductor switch; and  
a microprocessor having computer readable instructions stored on a computer readable medium, the computer readable instructions comprising,  
computer readable instructions for receiving input from a user;  
computer readable instructions responsive to said input for selecting the type of antenna based on said input by controlling the semiconductor switch.

9. The antenna system of claim 6, wherein the access point is selected from the group consisting of a UNII-1 and a UNII-2 access point.

10. A diversity antenna system for a UNII access point, comprising:  
an internal, captured, rotatably mounted near omni-directional antenna;  
a circuit board mounted inside the access point, the circuit board comprising:  
a near omni-directional antenna,  
a TM10 mode patch antenna,  
a semiconductor switch for switching to one of the internal, captured, rotatably mounted near omni-directional antenna, the near omni-directional antenna, and the TM10 mode patch antenna;

connection means adapted to connect the internal, captured, rotatably mounted near omni-directional antenna, the near omni-directional antenna, and the TM10 mode patch antenna to the semiconductor switch; and

a configuration means adapted to cause the semiconductor to switch for selecting the antenna type, the antenna type being one of the group of the internal, captured, rotatably mounted near omni-directional antenna, the near omni-directional antenna and the TM10 patch mode antenna.

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